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KIMURA, Satoshi / IGARASHI, Yasyuki / HAKOMORI, Sen-Itiroh / AHMAD, Mahammed N. / OKOSHI, Hirofumi / HANDA, Kazuko / ONCOMEMBRANE, INC., EUROPEAN PATENT, Oct 1993
 The invention relates to compounds with a profound effect on protein kinase-C activity and mammalian cell proliferation; and methods of using the same. Sphingosine (SPN) is a long chain unsaturated amino alcohol of the formula C 18 H 37 O 2 N...
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- ☐ 2. CHEMICALLY-DEFINED OLIGOSACCHARIDE, ITS DERIVATIVE, MIMETICS AND INHIBITION OF METASTASIS POTENTIAL AND INVASIVENESS OF...
HAKOMORI SEN-ITIROH / KAZUKO HANDA / TOYOKUNI TATSUSHI / NUDELMAN EDWARD / BIOMEMBRANE INST, PATENT ABSTRACTS OF JAPAN, May 1994
 PURPOSE: To prepare an oligosaccharide capable of inhibiting metastasis of tumor cells and inflammatory. CONSTITUTION: The process for inhibiting metastasis potential of tumor cells in the range of a biological preparation comprises incubating at...
Full text available at patent office. For more in-depth searching go to LexisNexis
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- ☐ 3. THE EFFECT OF N,N,N-TRIMETHYLSPHINGOSINE ON PROTEIN KINASE-C ACTIVITY; MELANOMA CELL GROWTH IN VITRO; METASTATIC POTENTIAL...
KIMURA, Satoshi / IGARASHI, Yasyuki / HAKOMORI, Sen-Itiroh / AHMAD, Mahammed, N. / OKOSHI, Hirofumi / HANDA, Kazuko / THE BIOMEMBRANE INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Jul 1992
 The invention relates to a novel compound, compositions and medicaments thereof and a method of inhibiting cell proliferation, platelet aggregation (induced by various factors) and inhibiting malignant phenotypes of tumor cells such as those having a...
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- ☐ 4. METHOD FOR INHIBITING SELECTIN-DEPENDENT ADHESION OF LEUKOCYTES AND PLATELETS BY O-GLYCOSYLATION MODIFICATION
KOJIMA, Naoya / HANDA, Kazuko / HAKOMORI, Sen-Itiroh / THE BIOMEMBRANE INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Jun 1993
O-glycosylation and O-glycosylation extension inhibitors influence selectin-dependent interactions between cells and between cells and platelets.
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- ☐ 5. PREPARATION OF PROCESSED FOOD
HISA YUJI / HANDA SHOHACHI / AKASHI HIKARI / UMEHARA KAZUKO / AJINOMOTO CO INC, PATENT ABSTRACTS OF JAPAN, Jul 1983
PURPOSE: To prevent the separation of oil and fat during the preparation of a processed food, and to improve the palatability and color, etc. of the processed food, by removing the skin from soybean grains as far as possible, separating a...
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- ☐ 6. Effect of N,N,N-trimethylsphingosine on protein kinase-C activity, melanoma cell growth in vitro, metastatic potential in...
Handa, Kazuko / Igarashi, Yasuyuki / Ahmad, Mahammad N. / Hakomori, Sen-Itiroh / Biomembrane Institute, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 1992
The invention relates to a novel compound, compositions and medicaments thereof and a method of inhibiting cell proliferation, platelet aggregation (induced by various factors) and inhibiting malignant phenotypes of tumor cells such as those having a...
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- ☐ 7. Method for inhibiting selectin-dependent adhesion of leukocytes and platelets by O-glycosylation modification
Kojima, Naoya / Handa, Kazuko / Hakomori, Sen-Itiroh / The Biomembrane Institute, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 1993
O-glycosylation and O-glycosylation extension inhibitors influence selectin-dependent interactions between cells and between cells and platelets.
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ 8. INHIBITION OF CELL ADHESION BY CHEMICALLY-DEFINED OLIGOSACCHARIDES, THEIR DERIVATIVES, MIMETICS, AND ANTIBODIES DIRECTED...
KOJIMA, Naoya / HANDA, Kazuko / HAKOMORI, Sen-itiroh / THE BIOMEMBRANE INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Sep 1993
Many tumor-associated and leukocyte-associated carbohydrate antigens function as adhesion molecules, recognized by lectins (carbohydrate- protein interaction) or complementary carbohydrates (carbohydrate- carbohydrate interaction). Common structures...
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- ☐ **1. [INHIBITION OF CELL ADHESION BY CHEMICALLY-DEFINED OLIGOSACCHARIDES, THEIR DERIVATIVES, MIMETICS, AND ANTIBODIES DIRECTED...](#)**

KOJIMA, Naoya / HANDA, Kazuko / HAKOMORI, Sen-itiroh / THE

BIOMEMBRANE INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Sep 1993

...has been found that the **selectin** epitopes also are internally...sialylated, penultimate **fucosylated** type 1 or type 2 chains...K-1 (also known as E-**selectin**) recognizes primarily...affinity binding sites to E-**selectin**. That role is particularly...

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- ☐ **2. [Le\(X\) and related structures as adhesion molecules.](#)**

S Hakomori, Histochem J, Nov 1992

Le(x) (alpha 1-- 3 **fucosylated** type 2 chain) functions as an...identified as the target molecules for **selectin**-dependent cell adhesion. Adhesion...or platelets, which express E-**selectin** and P-**selectin** respectively, is initiated by...

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- ☐ **3. [MULTIVALENT MIMETICS AND PEPTIDE MIMETICS FOR BLOCKING CARBOHYDRATE-DEPENDENT CELLULAR INTERACTION AND FOR ELICITING...](#)**

TOYOKUNI, Tatsushi / KANNAGI, Reiji / HAKOMORI, Sen-itiroh / THE

BIOMEMBRANE INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Nov 1993

...carbocyclic derivative of a **selectin** epitope. Figure,14...having carbocyclic **fucose**. Figure 15 (Scheme...for inhibition of E-**selectin**-dependent and P-**selectin**-dependent cell adhesion...example, sialidase and **fucosidase**. The half-life of...

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- ☐ 1. [Further studies on cell adhesion based on Le\(x\)-Le\(x\) interaction, with new approaches: embryoglycan aggregation of F9...](#)

N Kojima / B A Fenderson / M R Stroud / R I Goldberg / R Habermann / T Toyokuni / S Hakomori, *Glycoconj J*, Jun 1994

...aggregation, in analogy to F9 cell aggregation. The major carrier of Le(x) determinant in F9 cells is not GSL but rather **polylactosaminoglycan** ('embryoglycan'), and we demonstrated autoaggregation of purified embryoglycan in the presence of Ca²⁺, and reversible...

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- ☐ 2. [MONOCLONAL ANTIBODIES AND VACCINE DEVELOPMENT DIRECTED TO HUMAN CANCER- ASSOCIATED ANTIGENS BY IMMUNIZATION WITH ANIMAL AND...](#)
KJELDTSEN, Thomas, J. The Biomembrane Institute / CLAUSEN, Henrik The Biomembrane Institute / SINGHAI, Anil The Biomembrane Institute / TOYOKUNI, Tatsushi The Biomembrane Institute / TAKAHASHI, Helio The Biomembrane Institute / HAKOMORI, Sen-itiroh The Biomembrane Institute / THE BIOMEMBRANE INSTITUTE, EUROPEAN PATENT, Mar 1990

...of sugar residues such as sialic acid, **fucose**, and N-acetyl glucosamine are linked to...inhibition of BM-3 with the monosaccharides **fucose** (open circles), galactose (open squares...preferably from *Charonia lampas*), **α-fucosidase**, and N-acetylhexosaminidase. Enzymatic...

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- ☐ 3. [Trifluoromethyl analogs of fucose and uses thereof](#)
Toyokuni, Tatsushi / Hakomori, Sen-itiroh / The Biomembrane Institute, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, May 1993
The present invention discloses trifluorofucoses and methods of making the same. Also disclosed are trifluorofucose analogs of **fucose**- containing oligosaccharides, and conjugates of trifluorofucose. Compositions are prepared which combine the trifluorofucose-containing...


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- ☐ **4. TRIFLUOROMETHYL ANALOGS OF FUCOSE AND USES THEREOF**
HAKOMORI, Sen-Itiroh / TOYOKUNI, Tatsushi / THE BIOMEMBRANE INSTITUTE,
PATENT COOPERATION TREATY APPLICATION, Nov 1992
DescQto TRIFLUOROMETHYL ANALOGS OF **FUCOSE** AND USES THEREOF Technical Field
The present...therefrom, trifluorofucose analogs of **fucose**- containing oligosaccharides,
and use...variety of trifluorofucose analogs of **fucose**- containing oligosaccharides and
conjugates...
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- ☐ **5. MONOCLONAL ANTIBODIES AND VACCINE DEVELOPMENT DIRECTED TO HUMAN**
CANCER- ASSOCIATED ANTIGENS BY IMMUNIZATION WITH ANIMAL AND...
KJELDTSEN, Thomas, J. / CLAUSEN, Henrik / SINGHAI, Anil / TOYOKUNI,
Tatsushi / TAKAHASHI, Helio / HAKOMORI, Sen-itiroh / THE BIOMEMBRANE
INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Sep 1989
...Thr) to which a number of sugar residues such as sialic acid, **fucose**, and N-acetyl
glucosamine are linked to form highly complex...saccharides. Panel A: inhibition of BM-3
with the monosaccharides **fucose** (open circles) , galactose (open squares), glucose
(closed triangles...
Full text available at patent office. For more in-depth searching go to  **LexisNexis**
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- ☐ **6. MULTIVALENT MIMETICS AND PEPTIDE MIMETICS FOR BLOCKING CARBOHYDRATE-**
DEPENDENT CELLULAR INTERACTION AND FOR ELICITING...
TOYOKUNI, Tatsushi / KANNAGI, Reiji / HAKOMORI, Sen-itiroh / THE
BIOMEMBRANE INSTITUTE, PATENT COOPERATION TREATY APPLICATION, Nov 1993
...t5- trifluoromethylfucose, carbocyclic **fucose**, N-trifluoroacetyl or N-
carbamylneuraminic acid, or S-glycosides of sialic acid and **fucose**. The peptide mimetics
complementary to...injected into mice. similarly, if sialosyl or **fucosyl** carbohydrate
derivatives (such as SW or...
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